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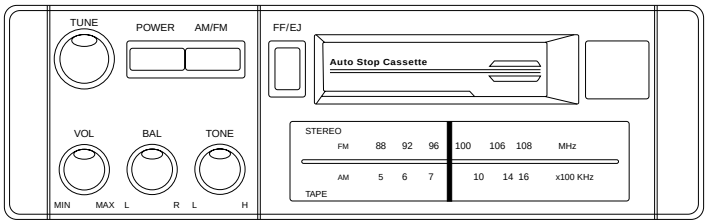
MAGNADYNE®

Installation and Operations Manual



M2080 AM/FM Stereo Receiver and Auto Stop Cassette Deck

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Introduction

Congratulations on your purchase of the Magnadyne M2080. This unit is a precision AM/FM/MPX receiver, and high fidelity stereo cassette player. This innovative system has been designed for in-dash installation, and can be installed in all automotive, motorcycle and marine applications.

Please read all of the information in this booklet before using this unit to insure that you fully understand the capabilities of this unit.

ONE (1) YEAR LIMITED WARRANTY

Magnadyne Corporation or its authorized agents will within 1 year from the date of sale to you, repair, replace or refund the retail sales price of said product or any part thereof, at the option of the Magnadyne Corporation or its authorized agents, if said product or part is found defective in materials or workmanship, when properly connected and operating on the correct power requirements designated for the specific product. This warranty and Magnadyne Corporation or its authorized agents obligations hereunder do not apply where the product was; damaged while in the possession of the consumer, subjected to unreasonable or unintended use, not reasonably maintained, utilized in commercial or industrial operations, or serviced by anyone other than Magnadyne Corporation or its authorized agents, or where the warning seal on the product is broken or the power and/or plugs are detached from the unit. Magnadyne Corporation or any of its authorized agents will not assume any labor costs for the removal and re-installation of any product found to be defective, or the cost of transportation to Magnadyne Corporation or its authorized agents. Such costs are the sole responsibility of the purchaser.

This warranty does not cover the cabinet appearance items or accessories used in connection with this product, or any damaged to recording or recording tape, or any damage to the to the products resulting from improper installation, alteration, accident, misuse, abuse or acts of nature.

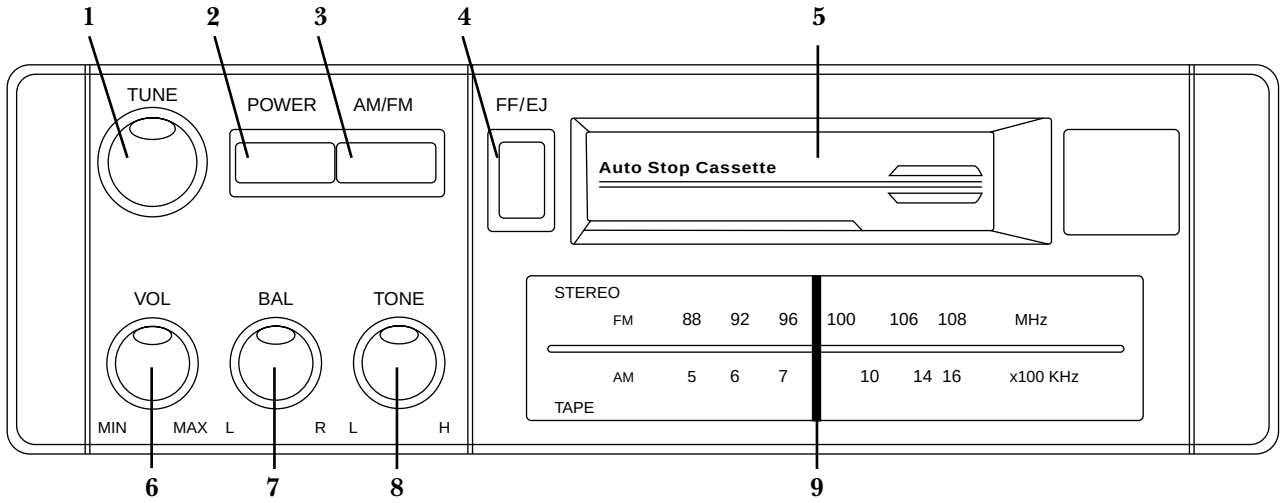
MAGNADYNE CORPORATION OR ITS AUTHORIZED AGENTS SHALL NOT BE LIABLE TO ANYONE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OR CLAIMS EXCEPT THOSE ACCORDED BY LAW. NO EXPRESSED WARRANTY OR IMPLIED WARRANTY IS GIVEN EXCEPT THOSE SET FORTH HEREIN. NO IMPLIED WARRANTY SHALL EXTEND BEYOND 1 YEAR FROM THE DATE OF SALE.

This warranty extends only to the original purchaser of the product and is not transferable.

Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may have other rights that vary from state to state.

Defective merchandise should be returned to the original point of purchase or secondly, to Magnadyne Corporation, 1111 W. Victoria Street, Compton CA 90220, or 2061 Cohen Street, Montreal, Quebec H4R 2N7. Return Authorization must be obtained before sending, or merchandise may be refused.

Controls and Operation



1. Radio Tuning Knob
2. Power On/Off Button
3. AM/FM Band Button
4. Fast Forward/Eject Button
5. Tape Cartridge Door
6. Volume Control Knob
7. Balance Control Knob
8. Tone Control Knob
9. Dial Indicator

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Controls and Operation

1. Radio Tuning Knob
Rotate the radio tuning knob in either direction to select the desired AM or FM station.

2. Power On/Off Button
Press the Power button to turn the stereo"On" or "Off".

3. AM/FM Band Button
Press the AM/FM selector button to choose the tuning band you wish to listen to.

4. Fast Forward / Eject Button
With the tape playing, press this button in halfway until it locks, to rapidly advance the position of the tape. To release, press the button lightly and release it. Depressing the button all the way in will stop the tape from playing and eject the tape from the mechanism.

5. Tape Indicator Light
A green light will light when the unit is in the tape mode.

6. Volume Control Knob
Rotate this control clockwise. Rotating the control progressively clockwise will increase the output volume level.

7. Balance Control Knob
Rotate the balance control from left to right to achieve the correct speaker balance. This control will balance two speakers from left to right. You will feel a "click" at the center point in the controls rotation, this is the controls mechanical center.

8. Tone Control Knob
The tone control allows you to vary the overall tone of the music you are listening to. Rotate the control counter clockwise to make the tone lower (bass) and clockwise rotation will make the tone higher (treble).

9. Dial Indicator
This designates the radio station on the dial scale.

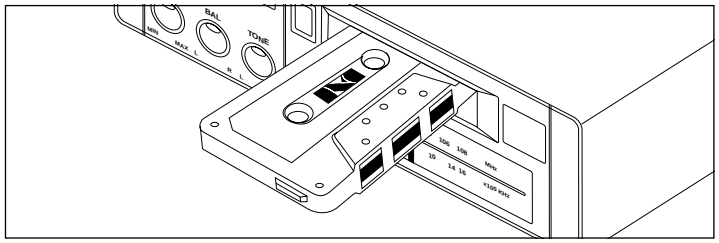
Controls and Operation

Radio Operation

1. To turn on the unit, push in the power button.
2. Select either AM or FM radio by using the AM/FM band button.
3. Use the radio tuning knob to select the desired station.
4. Adjust the volume, tone and balance controls to suit your listening taste.
5. To turn the unit off, simply push the power button.

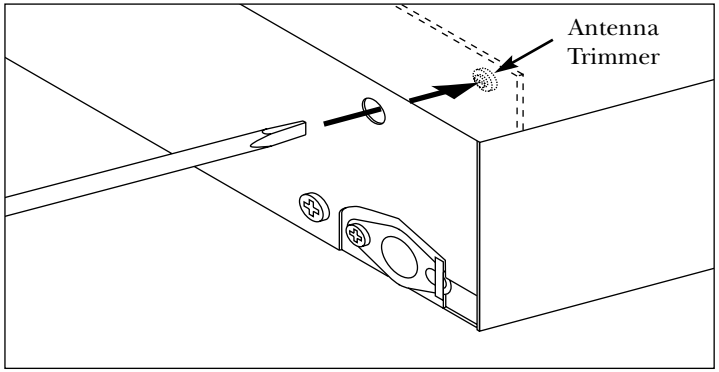
Tape Operation

1. Insert a cassette into the cassette door with the tape exposed side facing the right. The cassette will only fit in one way, so if it does not fit the first try, do not force it! Turn the cassette over and try inserting it again.
2. Adjust the volume, tone, and balance to your listening taste.
3. To fast advance the tape, press the "FF/EJ" button until it clicks. Press the button lightly to release it. Press the "FF/EJ" button all the way in to stop the tape and eject it from the mechanism.



Antenna Trimmer Adjustment

The trimmer is factory adjusted. However, it may require readjustment depending on the type of antenna which is employed. If AM reception is poor, adjust the trimmer for maximum output. Fully extend the antenna, tune to a station around the 1400kHz spot on the dial. Then insert a flat screwdriver into the rear of the chassis and carefully adjust the antenna trimmer for maximum output.



Installation

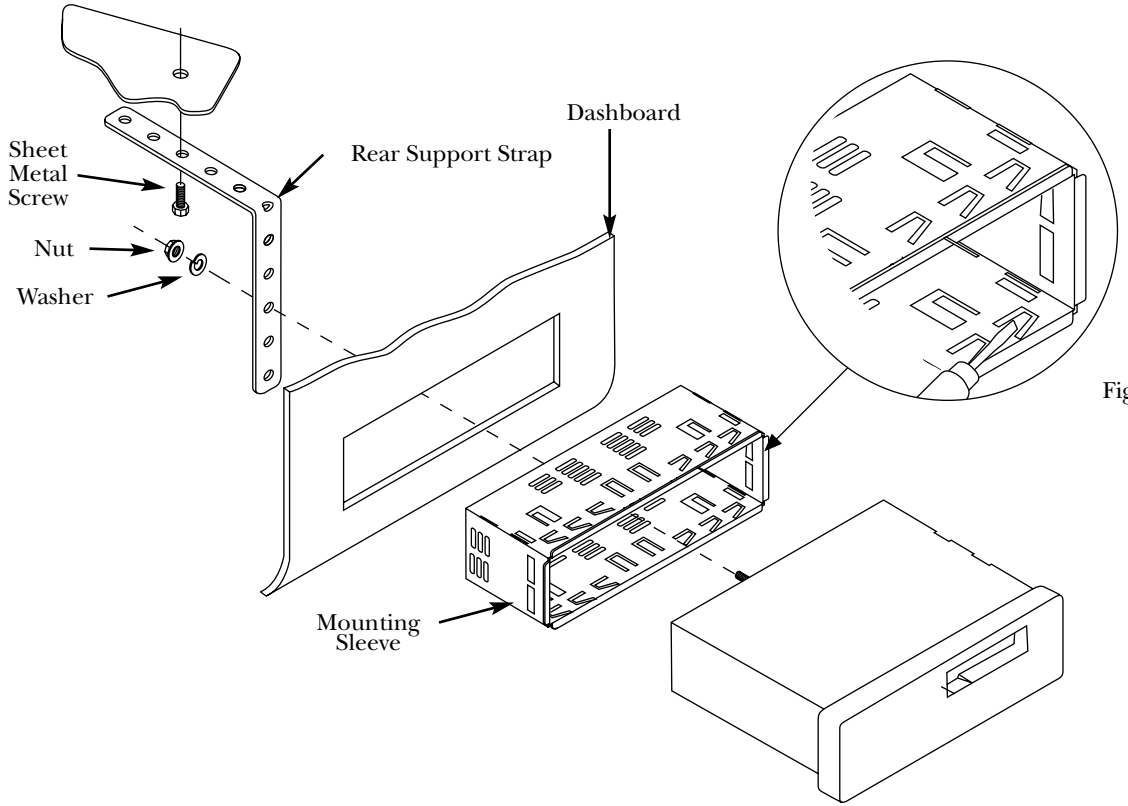
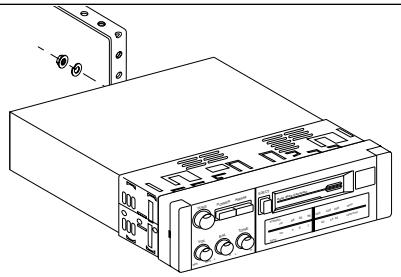


Figure 1

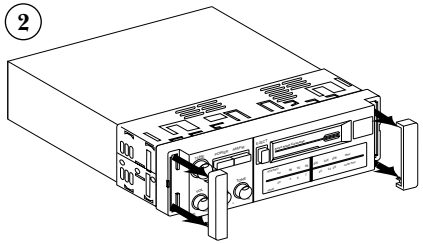
Installation

1



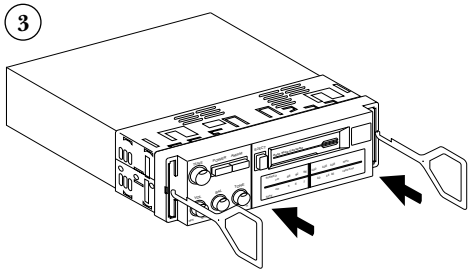
Release the rear support strap

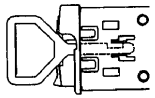
2



Remove the end caps.

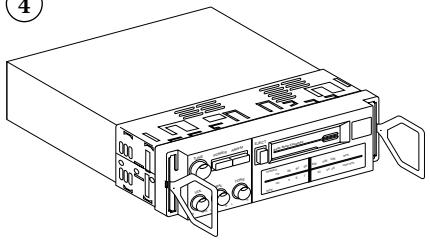
3

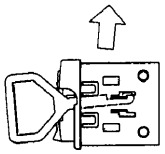




Insert the keys on the right and left side.

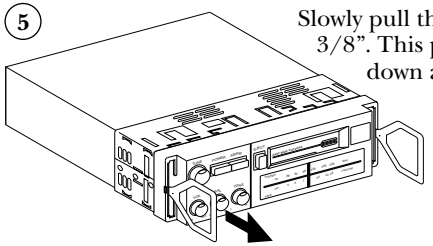
4





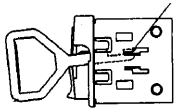
Slide the keys up at an angle.

5

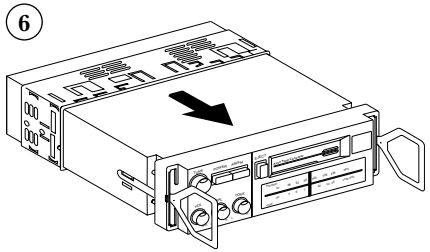


Slowly pull the keys out approximately 3/8". This presses the two stoppers down and releases the unit.

Stopper



6



Slide the unit from the metal housing.

Installation

Space Requirements:

To mount your new Magnadyne unit, you will need a rectangle hole in the mounting location 183mm (width) x 53mm (height), (7⅛" x 2⅛") and a full 7" of unobstructed space behind the mounting location.

Step 1:

After obtaining the required space and mounting hold dimensions required, release the mounting sleeve from the unit by pressing inward on the sides of the unit and sliding the mounting sleeve off the unit.
Insert the mounting sleeve into the hole on the dashboard. Secure it by bending the tabs inward as shown in fig 1. Select the appropriate tab according to the thickness of the dashboard.

Step 2:

Bring the power, ground, antenna and speaker wires through the center of the mounting sleeve. Make all the speaker and power connections to the main harness supplied with the unit. Refer to the "wiring" section of this unit for proper connection. After all the connections have been made and are correct, plug the harness and the antenna cable into the mating plugs located on the rear of the unit.

Step 3:

Turn on the ignition key and do a pre-installation check of all the functions with the unit out of the dashboard to make sure that everything is operating properly before final installation.

Step 4:

Securely attach the rear support strap provided to the rear of the unit with the fasteners provided. Bend the strap to allow the unit to slide into it's mounting sleeve. Reach up behind the unit and grab the strap while sliding the unit into the mounting sleeve until it snaps into place. Secure the end of the strap to a solid portion of the dashboard structure or the fire wall.

Removing the Unit:

In the event that the unit requires removal from it's mounting location, repeat the following procedures.

Step 1: Release the rear support strap.

Step 2: Remove the end caps.

Step 3: Insert the keys on the left and right side.

Step 4: Slide the key up at an angle.

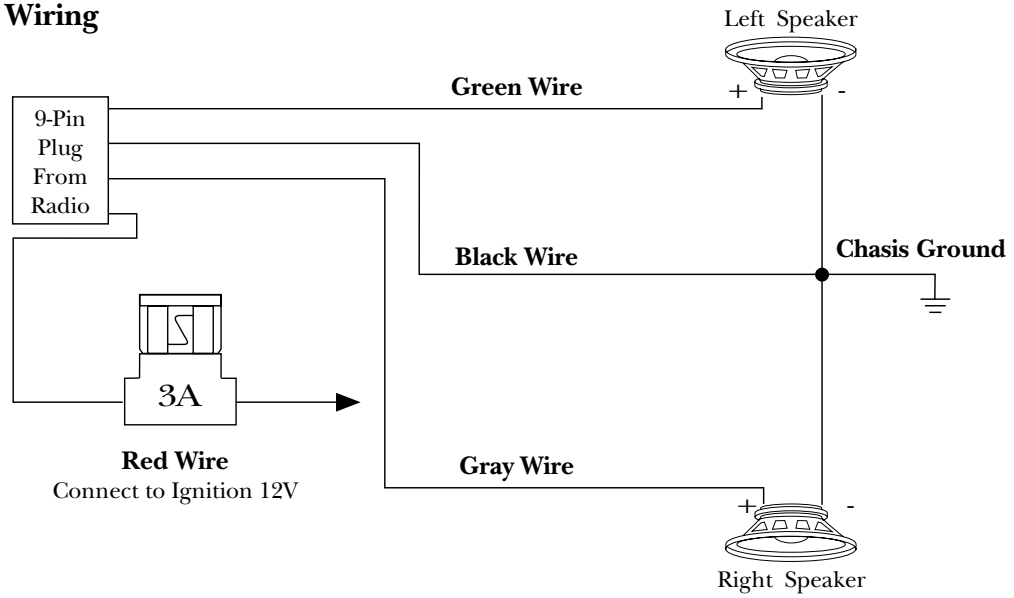
Step 5: Slowly pull the key out approximately 3/8" of an inch. This presses the two stopers down and releases the unit.

Step 6: Slide the unit from the metal housing.

Step 7: Disconnect the wire harness and the antenna.

Electrical Connections

Two Speaker Wiring



This unit if for use only with a 12 volt DC power source with a negative ground.
If your vehicle is equipped with an antenna, connect the lead from the existing antenna to the antenna receptacle located on the rear panel of the unit. If not, have an auto antenna installed at an auto accessories dealer.

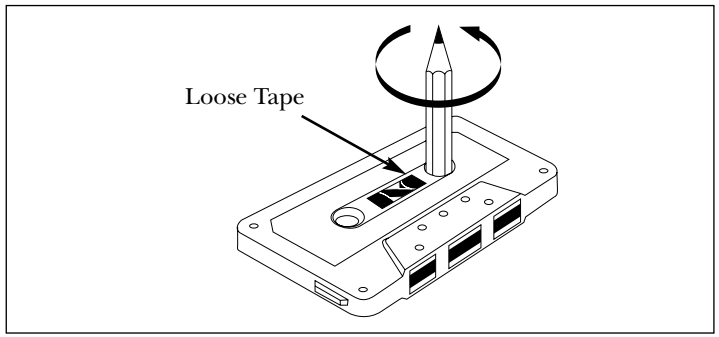
Two Speaker System
To obtain the best sound system, make sure that the corresponding terminals of each speaker pairs are connected

Cautions and Maintenance

The tape head should be cleaned regularly, especially when the playback sound begins to deteriorate. Insert a special head cleaning cassette into the tape mechanism and allow it to run for a few minutes. If you are playing pre-recorded tape, your tape head should be cleaned every 10-15 hours of playing time. If you record your own tapes and are using good quality high bias tape, (chrome or metal type) cleaning should be performed once a month as high quality tape will not deteriorate and leave deposits on the tape head as will pour quality pre-recorded tapes.

Your M2080 will play C-30, C-48, C-60 and C-90 tapes. Avoid playing C-120 or larger length tapes. These longer tapes create unwanted loads on the tape motor and belts causing pre-mature wear. Also, C-120 tape is thinner and prone to tangle inside the cassette mechanism, no matter how clean you keep your heads.

Before inserting a cassette into the unit, look through the cassette window to make sure there is no excess slack, loose turns, and if necessary, insert a pencil or similar object into the hub reel as shown below and rotate to take up the slack.



Fuse Replacement

Replace the fuse with only the specified size indicated below.
Fuse for main power wire (Red wire) 3.0 Amp

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Specifications

Tape Section

Play System	4-Track, 2 Channel Stereo
Tape Speed	4.75cm/sec. (1 7/8 ips.) +3. -1%
Wow and Flutter	0.3% WRMS Maximum
S/N Ratio	More than 40dB
Frequency Response	60-10kHz

FM Receiver

Tuning Range	88-108mHz
I.F.	10.7mHz
Sensitivity	15dB
Image Rejection	50dB / 106mHz
MPX Separation	30dB / 98mHz
MPX Indicator Sensitivity	10uV

AM Receiver

Tuning Range	520-1620kHz
Sensitivity	30dB
Image Rejection	58dB Min.
I.F.	455kHz

General and Audio Amp

Power Requirement	11-16D.C. Negative Ground Only
Load Impedance	4-8ohms
Power Output	3.5 Watts RMS/Channel a 4 ohms at 1% THD 7 Watts x 2 Maximum
Frequency Response	40Hz-10kHz
Dimensions	178mm(W) x 152mm(D) x 51mm(H)
Weight	1.8Kg (4 lbs.)

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